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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/550,110	09/19/2005	Masato Nishikawa	2003JP307	1045	
26389 77590 67714/2008 AZ ELECTRONIC MATERIALS USA CORP. ATTENTION: INDUSTRIAL PROPERTY DEPT.			EXAM	EXAMINER	
			EGWIM, KELECHI CHIDI		
70 MEISTER AVENUE SOMERVILLE, NJ 08876		ART UNIT	PAPER NUMBER		
			1796		
			MAIL DATE	DELIVERY MODE	
			07/14/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/550,110 NISHIKAWA ET AL. Office Action Summary Examiner Art Unit Dr. Kelechi C. Eawim 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 September 2005. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 4.5 and 17-19 is/are withdrawn from consideration. 5) Claim(s) 1.2 and 6-12 is/are allowed. 6) Claim(s) 3 and 13-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-19 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/US)

Paper No(s)/Mail Date 11/28/2005 01/30/2006

5) Notice of Informal Patent Application

6) Other:

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### DETAILED ACTION

#### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3 and 6-16, drawn to a modified polyvinyl alcohol and a crosslinkable auxiliary comprising the same.

Group II, claim(s) 4, 5 and 17-19, drawn to a method of producing a modified polyvinyl alcohol.

- 2. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Claim 3, at least, is anticipated by or obvious over JP-51125155, JP-36022145, JP-03200805 or JP-51125154. Consequently, the special technical feature which links the claims, a modified polyvinyl alcohol, does not provide a contribution to the prior art, and unity of invention is lacking.
- During a telephone conversation with Sangya Jain on 6/19/08 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-3 and 6-16. Affirmation of this election must be made by applicant in replying to this Office

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action. Claims 4, 5 and 17-19 are withdrawn from further consideration by the examiner. 37 CFR 1.142(b), as being drawn to a non-elected invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 3 and 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-51125155, JP-36022145, JP-03200805 or JP-51125154.

In their abstracts, each of JP-51125155, JP-36022145, JP-03200805 or JP-51125154 teach various low molecular weight modified/protected polyvinyl alcohol resins with protecting groups such as a formyl group, an acetyl group, a cynnamoyl group, a formal group, an acetal group or a butyral group.

Thus, the requirements for rejection are met.

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## Allowable Subject Matter

7. Claims 1, 2 and 6-12 are allowed.

None of the prior was found to teach or sufficiently suggest the present fine pattern formation auxiliary comprising the modified PVA in combination with water and the water-soluble crosslinking agent, particularly comprising the molecular weight properties recited in the present of claim 1.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kelechi C. Egwim whose telephone number is (571) 272-1099. The examiner can normally be reached on M-T (7:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Application/Control Number: 10/550,110 Page 5

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Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dr. Kelechi C. Egwim/ Primary Examiner, Art Unit 1796

KCE